

## ABSTRACT

A method for generating an intermediate representation of computer program code written for running on a programmable machine comprises: (i) generating a plurality of register objects for holding variable values to be generated by the program code; and (ii) generating a plurality of expression objects representing fixed values and/or relationships between said fixed values and said variable values according to said program code; said objects being organized into a branched tree-like network having all register objects at the lowest basic root or tree-trunk level of the network with no register object feeding into any other register object.